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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,782	07/03/2003	Patrizio Mattei	21159	6985
151 7590 12/01/2005			EXAMINER	
	-LA ROCHE INC.		TRUONG, TAMTHOM NGO	
PATENT LAW	/ DEPARTMENT			
340 KINGSLA	ND STREET		ART UNIT	PAPER NUMBER
NUTLEY, NJ	7 07110		1624	

DATE MAILED: 12/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)		
		10/613,782	MATTEI ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Tamthom N. Truong	1624		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status		·			
2a)⊠ 3)□	Responsive to communication(s) filed on <u>06 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositio	on of Claims				
5)□ (6)⊠ (7)⊠ (8)□ (Claim(s) 1-5,7,8 and 10-18 is/are pending in the day Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4,8,11,12 and 14-18 is/are rejected. Claim(s) 5, 7, 10 and 13 is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
	on Papers				
10)∐ T , !	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acces Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)				
2) 🔲 Notice 3) 🔲 Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

FINAL ACTION

Applicant's amendment of 9-6-05 has been fully considered. The amended claim 1 has overcome the previous 102 and 103 rejections based on **Hess et. al.** (US'836) by not having "alkoxy" in the definition of R⁴. Thus, said rejection is withdrawn herein. However, the amended claim has not overcome the previous 103 rejection based on **Breu et. al.** (WO'488). Therefore, said rejection is maintained herein.

Claims 6 and 9 have been cancelled.

Claims 1-5, 7, 8 and 10-18 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-4, 8, 11, 12 and 14-18 remain rejected under 35 U.S.C. 103(a) as being unpatentable over **Breu et. al.** (WO'488).

On page 11, Breu et. al. list several quinazoline compounds, two of which (e.g., compounds on lines 13 & 14) are analogous to compounds of the instant formula I with the following substituents:

a.

Ring A is pyrrolidinyl or piperidinyl;

- b. R^1 is $-N(R^5)(R^6)$ wherein R^5 and R^6 together with the N atom to which they are attached form a 6-membered heterocyclic ring such as *pyridine* or *pyrimidine*;
- c. R² is an alkyl group (or methyl);
- d. R³ is hydrogen.

The disclosed compounds differ from the claimed compounds by not having the *pyridinyl* or *pyrimidinyl* bonded to the quinazolinyl ring via the ring N. However, the preferred embodiment on page 8 of WO'488 lists several rings represented by R³ in which the *pyridinyl* and *pyrimidinyl* are not limited to a particular point of attachment. In other words, Breu et. al. seem to suggest an equivalent teaching for all points of attachment of those rings. Therefore, one would presume that the bonding of said rings to the quinazolinyl ring via N would still maintain the same biological activity.

Also, the generic teaching of WO'488 allows *pyrrolidinyl* or *piperidinyl* ring (represented by A²) to be substituted with "alkoxy" (e.g., methoxy, ethoxy) as recited in the instant claims 11 and 12.

Like the claimed compounds, the disclosed compounds can treat obesity, and can also be given with *orlistat* simultaneously, separately or sequentially. Hence, the composition and method claims 14, 15 and 18 are also rendered obvious by Breu et. al.

The instant claims 16 and 17 recite a method of treating obesity using a combination of the compounds claimed herein and *orlistat* (60-720 mg per day). Although Breu does not

disclose the specific dosage of *orlistat*, said dosage would have been within the level of a skilled clinician to figure out since *orlistat* is a commercially available agent with an established dosage.

Thus, at the time that the invention was made, it would have been obvious to make and use some compounds of the instantly claimed formula I in view of the teaching of Breu et. al.

Note, the amended claim 1 has not overcome this rejection because it still recites the limitation of R^5 and R^6 forming a ring, which would corresponds to the heteroaryl represented by R^3 in WO'488.

Claim Objections

Claims 5, 7, 10 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 5 and 7 recite subgenera of formula (I) wherein R¹ is OR⁴, and R⁴ is not an alkyl group (i.e., R¹ is not an alkoxy group), which is not taught by either Breu et. al. or Hess et. al. Claim 10 recites a subgenus of formula (I) wherein R¹ is -NR⁵R⁶ with R⁵ and R⁶ as independent substituents, which is not taught or fairly suggested by Breu et. al. or Hess et. al. Similarly, claim 13 recites specific compounds of R¹ as OR⁴ or NR⁵R⁶ wherein R⁴-R⁶ are all independent substituents. Said compounds are not taught or fairly suggested by Breu et. al. or Hess et. al.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamthom N. Truong whose telephone number is 571-272-0676. The examiner can normally be reached on M-F (9:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tamthom N. Truong

Zlen

Examiner

Art Unit 1624

11-28-05

JAMES O. WILSON

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600